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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/942,363	08/29/2001	John W. Smith	TESSERA 3.0-159 DIV	9946
530 7.	590 12/03/2003		EXAM	INER
LERNER, DAVID, LITTENBERG,			GREENE, PERSHELLE L	
KRUMHOLZ & MENTLIK 600 SOUTH AVENUE WEST			ART UNIT	PAPER NUMBER
WESTFIELD. NJ 07090			2826	

DATE MAILED: 12/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Application No.	Applicant(s)	
	09/942,363	SMITH, JOHN W.	
Office Action Summary	Examiner	Art Unit	
	Pershelle Greene	2826	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a I - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta - Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may a reply within the statutory minimum of third od will apply and will expire SIX (6) MON tute, cause the application to become AB	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on 17	' Sentember 2003		
,— ,	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	wance except for formal matt		
Disposition of Claims			
4)⊠ Claim(s) <u>1-24</u> is/are pending in the applicati	on.		
4a) Of the above claim(s) <u>11-13 and 15-24</u> is		eration.	
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3 and 5-10</u> is/are rejected.			
7)⊠ Claim(s) <u>4 and 14</u> is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) ☐ The specification is objected to by the Exam	iner.		
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to t	he drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.	
riority under 35 U.S.C. §§ 119 and 120			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the p application from the International Burn * See the attached detailed Office action for a l	ents have been received. ents have been received in A riority documents have been eau (PCT Rule 17.2(a)). ist of the certified copies not	application No received in this National Stage received.	
 13) Acknowledgment is made of a claim for dome since a specific reference was included in the 37 CFR 1.78. a) ☐ The translation of the foreign language 	first sentence of the specific	ation or in an Application Data Sheet.	
14) Acknowledgment is made of a claim for dome reference was included in the first sentence or	estic priority under 35 U.S.C.	§§ 120 and/or 121 since a specific	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	

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Serial Number: 09/942363

Attorney's Docket #: TESSERA 3.0-159 DIV

Filing Date: 08/29/2001

Applicant: Smith

Examiner: Pershelle Greene

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3 and 5-9 are being rejected under 35 U.S.C. 103(a) as being unpatentable over Akram et al. (U.S. Patent # 6,528,894), in view of Johnson et al. (U.S. Patent # 6,043,990).

As to claims 1-3, Akram et al. shows, in figure 25, first 12 and second 42 microelectronic elements. There is a plurality of composite conductive elements 16 disposed between the microelectronic elements and connecting the microelectronics to one another. Akram et al. fails to explicitly show a composite conductive element including a core and a layer of conductive material surrounding the core.

Johnson et al. is cited for showing a multiple board package employing solder balls.

Specifically, Johnson et al. is cited for showing composite conductive elements including a core

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and a layer of conductive material surrounding the core. The conductive material is a low-melting point exterior and the core is a high-melting point core.

It would have been obvious to one of ordinary skill in the art to use the conductive elements of Johnson et al. for the purpose of preventing collapsing of the microelectronic elements.

As to claim 6, the core is solid.

As to claims 7, the design of the core is a matter of design choice and will not effect the performance of the device.

As to claim 8, the core can be rigid. Refer to figure 9 and column 8 line 34 of Akram et al.

As to claim 9, the core (16 92) can be made of a compliant material such as a curable conductive adhesive polymeric element.

As to claim 10, the second microelectronic element includes a flexible film 52 having a first vertical surface facing the firs microelectronic element and a second vertical surface.

Claim Objections

3. Claims 4 and 14 are being objected to as being dependent upon a rejected base claim.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pershelle Greene whose telephone number is 703-305-3870. The examiner can normally be reached on M-F 8:30am - 5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 703-308-6601. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

PLG November 21, 2003

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